

WHAT IS CLAIMED IS:

1. A slide type mobile phone consisting of an upper housing and a lower housing, wherein said mobile phone comprises at least one slide module that combines said upper and lower housings with each other and allows said upper and lower housings to slide in straight line; and a connecting member that electrically connects a printed circuit board installed in said upper housing to a printed circuit board installed in said lower housing.

2. The slide type mobile phone as set forth in Claim 1, wherein at least one of said slide module comprises each a sliding member which comprises the first and the second sleeves for combining itself with said lower housing, and enables said upper and lower housings to slide; a support plate which is fixed to said upper housing for supporting said sliding member; and a guide plate which supports said sliding member together with said support plate and has a guide hole formed therein to guide sliding of said sliding member.

3. The slide type mobile phone as set forth in Claim 2, wherein said sliding member comprises a plate spring attached to said support plate by said guide plate; said first and second sleeves which separately penetrate vertically said plate spring and protrude toward said guide plate for fixing said lower housing to said slide module; and a protrusion which is formed by protrusion of predetermined part of said plate spring between said first and second sleeves for insertion of a ball in between said plate spring and said support plate.

4. The slide type mobile phone as set forth in Claim 3, wherein each of said first and second sleeves has screw groove for insertion of screw for fixing said lower housing.

5. The slide type mobile phone as set forth in Claim 2, wherein said support plate has a hexahedral shape with one face opened, said hexahedral shape comprising four vertical walls and a bottom face attached to said lower housing, and the first and the second holes are formed separately in said bottom face so as to generate a "click" sound by locking of said ball into said holes when said upper and lower housings slide.

6. The slide type mobile phone as set forth in Claim 2, wherein said guide plate has a hexahedral shape with one face opened, said hexahedral shape comprising four vertical walls and a plane in the center of which a guide hole is formed to guide sliding of said sliding member.

7. The slide type mobile phone as set forth in Claim 2, wherein a guide space is provided between said guide plate and said support plate when said sliding member is attached to said support plate using said guide plate so that said sliding member can be slid in said guide space.

8. The slide type mobile phone as set forth in Claim 1, wherein said connecting member is a FPCB (Flexible Printed Circuit Board) which comprises the first and the second terminals that are connected to the printed circuit boards of said upper and lower housings, respectively; and connection wire that electrically connects said first and

second terminals.

9. The slide type mobile phone as set forth in Claim 8, wherein said lower housing has a groove for insertion of said connection wire of FPCB.

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10. The slide type mobile phone as set forth in Claim 3, wherein a spring is inserted between said protrusion and said ball.

11. The slide type mobile phone as set forth in any one of Claims 1 through 10,
10 wherein the first and the second bar type rails are formed on both edges of said lower housing and the linear-shaped first and second holes are formed on both edges of said upper housing for insertion of said first and second rails to keep balance in sliding, by maintaining a straightforward linear sliding between said upper and lower housings.